Index of Claims

| App | lication | /Control | No. |
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09/845,220

Reexamination ZUMBACH ET AL.

Thu Thao Havan

Art Unit -

Applicant(s)/Patent under

Examiner

3691

Rejected **Allowed** 

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

Appeal Α 0 Objected

|          |                |  | •        |              |              |              |          |  |  |  |
|----------|----------------|--|----------|--------------|--------------|--------------|----------|--|--|--|
| Cla      | Date           |  |          |              |              |              |          |  |  |  |
| Final    | Original       | 5/20/07  |          |              |              |              |          |  |  |  |
|          | 1              | 1  |          |              |              |              |          |  |  |  |
|          | 2              | 7  | _        |              |              |              |          |  |  | -  |
|          | 3              | 1  | _        |              |              |              |          |  |  |  |
|          | 5              | 1  |          |              |              |              |          |  |  |  |
|          | 5              | 1  |          |              |              |              |          |  |  |  |
|          | 6              | ٧  |          |              |              |              |          |  |  |  |
|          | <u>7</u><br>8  | ٧  | <u> </u> |              | L            |              |          |  |  |  |
|          | 8              | V  | <u> </u> |              |              |              | L.,      |  |  |  |
|          | 9              | 1  | <u> </u> | _            |              |              |          | _  | L  |  |
|          | 10             | 7  | _        | <u> </u>     |              |              | L-       |  |  |  |
|          | 11<br>12       | 1  | -        | -            | H            |              |          | _  |  | _  |
|          | 12             | 1  | -        | ├            | <del> </del> |              |          |  |  |  |
|          | 13<br>14<br>15 | 1  | -        | $\vdash$     | $\vdash$     | H            |          | _  | -  | -  |
|          | 15             | V  | $\vdash$ | $\vdash$     |              |              |          |  |  |  |
|          | 16             | V  |          | $\vdash$     |              |              |          | _  |  |  |
|          | 17             | 1  |          |              |              | П            |          | _  |  | -  |
|          | 18             | ٧  |          | T            |              |              |          |  |  |  |
|          | 19             | 1  | 厂        |              |              |              |          |  |  | -  |
|          | 20             | 1  |          |              |              |              |          |  |  |  |
|          | 21             | 1  |          |              |              |              |          |  |  |  |
|          | 22             | 1  |          |              |              |              |          |  |  |  |
|          | 23             | V  |          | _            |              | <u> </u>     |          |  | <u> </u>   |  |
|          | 24             | V  |          |              |              | <u> </u>     |          |  |  |  |
|          | 25             | ٧  | _        | _            | <u> </u>     | <u> </u>     |          | <u> </u>   |  | _  |
| _        | 26             | <u> </u>   | <u> </u> | ┝            | <u> </u>     |              |          | -  |  |  |
| <u> </u> | 27<br>28       | -  |          | -            |              | _            | <u> </u> |  | -  | $\vdash$   |
|          | 29             | ├  |          |              |              | $\vdash$     | _        |  |  | $\vdash$   |
|          | 30             | $\vdash$   |          | H            | -            | ├─           |          | _  | -  | $\vdash$   |
|          | 31             |  |          |              |              |              |          | $\vdash$   |  | $\vdash$   |
|          | 32             |  |          |              |              | $\vdash$     |          | _  | _  |  |
|          | 33             |  |          |              |              |              |          |  |  |  |
|          | 34             |  |          |              |              |              |          |  |  |  |
|          | 35             |  |          |              |              |              |          |  |  |  |
|          | 36             |  | <u> </u> | _            | <u> </u>     |              |          | Ŀ  | L  |  |
| <u> </u> | 37             | <u> </u>   | <u> </u> | _            |              | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>   |  |
|          | 38             |  | _        | <u> </u>     | <u> </u>     |              | <u> </u> | _  | <u> </u>   | _  |
|          | 39             | <u> </u>   | $\vdash$ | <del> </del> |              | <u> </u>     | <u> </u> | <u> </u>   | <u> </u>   | <u> </u>   |
|          | 40             |  | _        | -            |              | <del> </del> | <u> </u> | _  | -  |  |
|          | 41<br>42       | $\vdash$   | $\vdash$ | $\vdash$     | -            | $\vdash$     | $\vdash$ | <del> </del>                                     |  |  |
|          | 43             | <del>                                     </del> | -        | <del> </del> | ├─           | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   |
|          | 44             | $\vdash$   |          | $\vdash$     |              | $\vdash$     | $\vdash$ | $\vdash$   |  | <del>  -                                    </del> |
|          | 45             | <u></u>  | -        | $\vdash$     | <u> </u>     | $\vdash$     |          | $\vdash$   | $\vdash$   | $\vdash$   |
|          | 46             |  | T        |              | T            |              | $\vdash$ | <del>                                     </del> | <del>                                     </del> | $\vdash$   |
|          | 47             |  | T        |              | <u> </u>     |              |          |  |  |  |
|          | 48             |  |          |              |              |              |          |  |  |  |
|          | 49             |  |          |              |              |              |          |  |  |  |
|          | 50             |  |          |              | <u> </u>     |              | L        |  |  | L  |

| E           | 51       52         53       54         55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         80       81         82       83         84       85         86       87         88       89         90       91         91       92         93       94         95       96 | Cla   | im       | Date   |          |          |          |  |              |  |          |          |
|---|---|-------|----------|--|----------|----------|----------|--|--------------|--|----------|----------|
| 52       53         54       55         56       57         58       59         60       61         61       62         63       64         65       66         66       67         68       69         70       71         72       73         76       77         78       79         80       81         82       83         84       85         86       86         87       88         89       90         91       92         93       94         97       97   | 52       53         54       55         56       57         58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96 | Final | Original |  |          |          |          |  |              |  |          |          |
| 52       53         54       55         56       57         58       59         60       61         61       62         63       64         65       66         66       67         68       69         70       71         72       73         76       77         78       79         80       81         82       83         84       85         86       86         87       88         89       90         91       92         93       94         97       97   | 52       53         54       55         56       57         58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96 |       | 51       |  |          |          |          |  |              |  |          |          |
| 54  | 54  |       | 52       |  |          |          |          |  |              |  |          |          |
| 55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         80       81         82       83         84       85         86       87         88       89         90       91         94       95         96       97   | 55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   |       | 53       |  |          |          |          |  |              |  |          |          |
| 56       57         58       59         60       61         62       63         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   | 56       57         58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   |       | 54       |  |          |          |          | _  |              |  |          |          |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   | 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   |       | 55       | _  |          |          |          |  |              |  |          |          |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   | 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96   |       | 56       | <u> </u>   |          |          |          |  |              |  | <u> </u> |          |
| 59  | 59  |       | 5/       | H  |          |          |          | _  |              | _  |          |          |
| 60 61 61 62 62 63 64 64 65 65 66 66 67 67 68 68 69 70 70 71 71 72 73 73 74 75 76 76 77 78 78 79 80 81 81 82 83 83 84 84 85 85 86 87 88 89 90 90 91 91 92 93 99 90 91 91 92 92 93 99 90 91 91 92 92 93 94 94 95 96 97  | 60 61 61 62 63 63 64 65 66 66 67 67 68 68 69 70 70 71 71 72 72 73 73 74 75 76 76 77 78 78 79 80 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 94 95 96 97  |       | 50       | $\vdash$   |          |          |          | $\vdash$   |              |  | _        |          |
| 61  | 61  |       | 60       | H  |          |          |          | _  |              |  |          | _        |
| 62  | 62 63 64 64 65 66 66 67 67 68 68 69 70 70 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 84 85 85 86 87 88 89 90 91 91 92 92 93 94 94 95 96 97 91 92 93 94 94 95 96 97  |       | 61       | $\vdash$   |          |          |          | _  |              |  | H        |          |
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| 64  | 64  |       | 63       | $\vdash$   |          |          |          |  |              |  |          |          |
| 65 66 67 67 68 68 69 70 70 71 72 72 73 74 75 76 76 77 78 78 79 80 81 82 83 84 85 86 87 88 88 89 90 90 91 91 92 93 94 995 96 97 97 9 96 97   | 65 66 67 68 68 69 70 70 71 72 73 74 75 76 76 77 78 78 79 80 81 82 83 84 84 85 86 87 88 88 89 90 91 91 92 93 94 95 96 97   |       | 64       |  |          |          |          |  |              |  |          |          |
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| 68 69 70 70 71 71 72 73 74 75 75 76 76 77 78 78 79 80 81 82 83 84 84 85 86 87 88 88 88 88 88 88 88 88 88 88 88 88   | 68 69 70 70 71 71 72 73 74 75 76 76 77 78 78 79 80 81 82 83 84 85 86 87 88 88 88 88 88 88 88 88 88 88 88 88   |       | 66       |  |          |          |          |  |              |  |          |          |
| 69  | 69  |       | 67       |  |          |          |          |  |              |  |          |          |
| 70  | 70  |       |          |  |          |          |          | $ldsymbol{ld}}}}}}$ | $oxed{oxed}$ |  |          |          |
| 71  | 71  |       | 69       |  |          |          |          |  |              |  |          |          |
| 72  | 72  |       | 70       |  |          |          |          |  |              | _  |          |          |
| 73  | 73  |       | 71       |  |          |          |          |  | <u> </u>     | <u> </u>   | _        |          |
| 75  | 75  |       | 72       | _  | _        |          | _        | _  | $\vdash$     | <u> </u>   | ┝        |          |
| 75  | 75  |       | 74       |  |          |          | _        | <del> </del>   | _            | -  |          |          |
| 76  | 76  |       | 75       |  | $\vdash$ |          | $\vdash$ | _  |              | $\vdash$   | $\vdash$ |          |
| 78  | 78  |       | 76       |  | -        |          |          |  |              |  |          |          |
| 78  | 78  |       | 77       |  | $\vdash$ |          | _        | _  |              | $\vdash$   | -        |          |
| 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96   | 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96   |       | 78       |  |          |          |          |  |              | Н  |          |          |
| 80 81 82 83 84 85 86 87 88 89 90 90 91 91 92 92 93 93 94 95 96 97   | 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 93 94 95 96 97   |       | 79       | _  | _        |          |          |  |              | $\vdash$   |          |          |
| 82  | 82  |       | 80       |  |          |          |          |  |              |  |          |          |
| 83  | 83  |       | 81       |  |          |          |          |  |              |  |          |          |
| 84  | 84  |       | 82       |  |          |          |          | ļ  |              |  |          |          |
| 85 86 87 87 88 88 89 90 90 91 91 92 93 93 94 95 96 97   | 85 86 87 88 88 89 90 90 91 91 92 93 93 94 95 96 97  |       | 83       |  | <u> </u> |          |          |  |              | ļ  |          |          |
| 86 87 88 88 89 90 90 91 91 92 92 93 93 94 95 96 97 97   | 86 87 88 88 89 90 90 91 91 92 93 93 94 95 96 97   |       | 84       | <b>.</b>   | <u> </u> | <u> </u> | ļ        | _  |              | <u> </u>   |          |          |
| 87 88 89 90 90 91 91 92 92 93 93 94 95 96 97 97   | 87  |       |          | <u> </u>   | -        | <u> </u> | <u> </u> | <u> </u>   | <u> </u>     | <u> </u>   |          | L        |
| 88 89 90 90 91 91 92 92 93 94 95 96 97 97   | 88 89 90 90 90 91 91 92 92 93 94 95 96 97 97 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  |       | 86       | <u> </u>   | $\vdash$ | $\vdash$ | $\vdash$ | _  | $\vdash$     | $\vdash$   | H        | ⊢        |
| 89  | 89  |       | 80       | ├  | <u> </u> | $\vdash$ | -        | <del> </del>   |              | ├-   | H        | $\vdash$ |
| 90<br>91<br>92<br>93<br>94<br>95<br>96<br>97  | 90 91 91 92 92 93 94 95 96 97 97 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  |       | 80       | <del>                                     </del> | $\vdash$ | $\vdash$ | $\vdash$ | <u> </u>   | $\vdash$     | $\vdash$   | $\vdash$ | H        |
| 91 92 93 93 94 95 96 97 97 9 97   | 91 92 93 93 94 95 96 97 97 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  |       |          |  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$   |          | $\vdash$ |
| 92<br>93<br>94<br>95<br>96<br>97  | 92 93 94 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97   |       |          | <del>                                     </del> |          | Н        |          |  | ļ            | <u> </u>   | -        | -        |
| 93 94 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97  | 93 94 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97  |       |          | $I^-$  |          | Г        |          | $\vdash$   | T            | <del>                                     </del> |          | Г        |
| 94 95 96 97 97 97 98 97 97 97 97 97 97 97 97 97 97 97 97 97 | 94 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97   |       |          |  |          |          |          |  |              |  |          |          |
| 95<br>96<br>97  | 95 96 97 97 97 97 97 97 97 97 97 97 97 97 97  |       | 94       |  |          |          |          |  |              |  |          |          |
| 97  | 97  |       | 95       |  |          |          |          |  |              |  |          |          |
|   |   |       |          |  |          |          |          |  |              |  |          |          |
|   | . 1981  |       |          | _  | <u> </u> | <u> </u> |          |  | <u> </u>     | _  |          | _        |
| 99  |   |       | 98       |  | <u> </u> | $\vdash$ | _        | _  | $\vdash$     | $\vdash$   |          | $\vdash$ |

|         | l                 | Ц        |          |  |   |  |   |          | ı             |          |
|---------|-------------------|----------|----------|--|---|--|---|----------|---------------|----------|
| Claim   |                   | Γ        |          |  | Г | Date   |   |          |               | $\neg$   |
|         |                   |          |          |  |   | - 410  |   |          |               | $\sqcap$ |
| Final   | Original          |          |          |  |   |  |   |          |               |          |
|         | l                 |          |          |  |   |  |   |          |               |          |
|         | 101<br>102        | -        | <u> </u> | _  |   |  |   |          | _             |          |
|         | 102               | _        | <u> </u> |  |   |  |   | _        |               | -        |
| ├──     | 103<br>104<br>105 | _        | -        |  |   | _  | _ |          |               |          |
| -       | 104               |          | ⊢        |  |   |  |   | -        |               | -        |
|         | 106               | -        | _        |  |   |  |   |          | -             |          |
|         | 107               | _        |          |  |   |  |   | -        |               | $\dashv$ |
| <b></b> | 108               | _        |          | -  | _ | -  | _ |          | _             |          |
|         | 109               |          |          | <del>                                     </del> |   |  |   |          | $\vdash$      | $\vdash$ |
|         | 110               | H        |          | Н  |   |  |   |          | _             |          |
|         | 111               | $\vdash$ |          |  |   |  |   |          |               |          |
|         | 112               |          |          |  |   |  |   |          | _             |          |
|         | 113               | T        |          | $\vdash$   |   |  |   | <u> </u> | $\vdash$      | $\Box$   |
|         | 114               | $\Box$   |          | Г  |   |  |   |          | Г             | $\Box$   |
|         | 115               |          |          |  | _ |  |   |          |               |          |
|         | 116               |          |          |  |   |  |   |          |               |          |
|         | 117               |          |          |  |   |  |   |          |               |          |
|         | 118               |          |          |  |   |  |   |          |               |          |
|         | 119               |          |          |  |   |  |   |          |               |          |
|         | 120               |          |          |  |   |  |   |          |               |          |
|         | 120<br>121        |          |          |  |   |  |   |          |               |          |
|         | 122               |          |          |  |   |  |   |          |               |          |
|         | 123<br>124        |          |          |  |   |  |   |          |               |          |
|         | 124               |          |          |  |   |  |   |          |               |          |
|         | 125               |          |          |  |   |  |   |          |               | Ш        |
|         | 126<br>127        |          | <u> </u> | _  |   |  |   |          |               |          |
|         | 127               |          |          | _  |   |  | _ |          |               | Ш        |
|         | 128               |          |          |  |   | _  |   | <u> </u> |               |          |
|         | 129               | _        | _        | _  |   |  |   |          |               |          |
|         | 130               | <u> </u> | _        | <u> </u>   |   |  |   | <u> </u> |               | _        |
|         | 131               | _        |          | $\vdash$   |   | <u> </u>   |   | <u> </u> |               |          |
|         | 132               |          |          | <u> </u>   |   | <u> </u>   |   |          | _             | _        |
|         | 133               | -        |          |  |   | Н  |   |          |               | Н        |
|         | 134<br>135        | ├        | -        | -  |   | -  |   | ├        | _             | Н        |
|         | 136               |          |          |  |   | -  |   | ┢        |               |          |
|         | 137               | $\vdash$ |          | $\vdash$   |   | H  |   | ┢        |               | Н        |
|         | 138               | -        |          |  | _ | $\vdash$   |   | $\vdash$ |               | $\vdash$ |
|         | 139               |          | -        | $\vdash$   | _ | ┝  | _ | -        |               | Н        |
|         | 140               | $\vdash$ |          | ┢  |   | -  |   | ┢        |               | Н        |
|         | 141               |          |          | $\vdash$   |   |  |   | _        |               | П        |
|         | 142               |          |          | <b>†</b>   |   | <del>                                     </del> |   |          |               | М        |
|         | 143               |          |          |  |   | Г  |   | $\vdash$ | $\overline{}$ | П        |
|         | 144               |          | <u> </u> | <b></b> -  |   |  |   |          |               | П        |
|         | 145               |          |          |  |   |  |   | <u> </u> | $\vdash$      |          |
|         | 146               |          |          |  |   |  |   |          |               |          |
|         | 147               |          |          |  |   |  |   | L        |               |          |
|         | 148               |          |          |  |   |  |   |          |               |          |
|         | 149               |          | L        |  |   |  |   |          |               | Ш        |
|         | 150               |          | L        |  |   | <u> </u>   |   |          |               | Ш        |